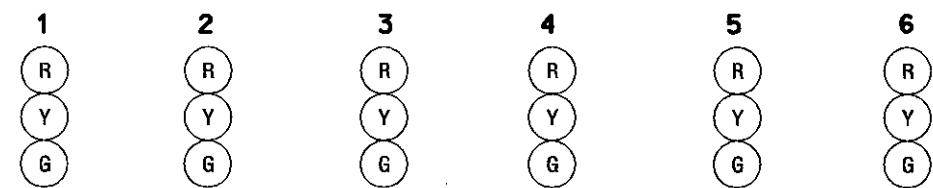


PHASE CHART



PHASE 2 + 6	G	G	G	G	R	R	←
2 + 6 CHANGE	Y	Y	Y	Y	R	R	→
PHASE 4	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↔

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT MD 7 AND INDUSTRIAL PARK ROAD IN BALTIMORE COUNTY. MD 7 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE SIGNAL WILL OPERATE IN A NEMA THREE-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH MD 7 APPROACHES RUNNING CONCURRENTLY AND INDUSTRIAL PARK ROAD RUNNING ALONE.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH VIDEO DETECTION EQUIPMENT BEING PROVIDED FOR ALL APPROACHES, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT
ENGINEER - TRAFFIC
PHONE: (410) 321-2781

MR. PHILIP HUMBERTSON
SPECIAL PROJECTS
PHONE: (410) 321-2851

MR. JOE McMAHON
UTILITY ENGINEER
PHONE: (410) 321-2780

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS:

BALTIMORE GAS ELECTRIC COMPANY
MR. JOSEPH G. BUNCH
INDUSTRIAL / COMMERCIAL SERVICES
NEW BUSINESS CONSTRUCTION
7317 PARKWAY DRIVE SOUTH
PHONE: (410) 859-9030

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
813	973023	10 S.F.	SHEET ALUMINUM SIGNS 1 EACH D3-2 SIGN (VARIABLE x 16 IN.) (ADVANCE STREET NAME PANEL) MAST ARM MOUNT
816	971017	1 EACH	EIGHT-PHASE FULLY-ACTUATED TRAFFIC SIGNAL CONTROLLER IN A NEMA SIZE 6 BASE MOUNTED CABINET
---	900000	1 EACH	VEDIO INTERFACE EQUIPMENT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
104	120500	L.S.	MAINTENANCE OF TRAFFIC
104	114250	1 EACH	FURNISH AND INSTALL REMOVABLE PREFORMED PAVEMENT MARKING ARROW
205	203030	2 C.Y.	TEST PIT EXCAVATION
801	801004	6.35 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	2 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
805	870160	25 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	870166	20 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805	870163	20 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
807	807205	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
810	800000	10 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3-CONDUCTOR (NO. 4 AWG)
810	861116	225 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2-CONDUCTOR (NO 12 AWG)
810	861107	120 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
810	861108	920 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)
810	802501	710 L.F.	FURNISH AND INSTALL NO.6 STRANDED BARE COPPER GROUND WIRE
811	811011	3 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813	813015	10 S.F.	INSTALL OVERHEAD SIGN
814	860272	6 EACH	FURNISH AND INSTALL 12 INCH BLACK FACE VEHICULAR TRAFFIC SIGNAL HEAD SECTION
816	871117	1 EACH	INSTALL EIGHT-PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNTED
818	818052	1 EACH	FURNISH AND INSTALL 27' STEEL POLE AND 70 FT MAST ARM
----	800000	3 EACH	FURNISH AND INSTALL 3" WEATHER HEAD
----	869102	600 L.F.	FURNISH AND INSTALL 3/8" SPAN WIRE
----	816011	3 EACH	FURNISH AND INSTALL VIDEO DETECTION CAMERA
----	816005	2 EACH	FURNISH AND INSTALL 250 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
----	816010	1 EACH	FURNISH AND INSTALL 500 FT. CABLE PRE-MANUFACTURED CAMERA TO CONTROL CABINET
----	800000	1 EACH	FURNISH AND INSTALL 40' CLASS 2 WOOD POLE WITH BACK GUYS
----	800000	30 L.F.	FURNISH AND INSTALL 3" ELECTRICAL CONDUIT - PVC RISER

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

SPEC. SECTION.	CATEGORY CODE NO.	QUANTITY	DESCRIPTION
-----	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
-----	873001	L.S.	REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED
* -----	800000	L.S.	DELIVERY OF SALVAGED MATERIALS

* NON FEDERAL AID

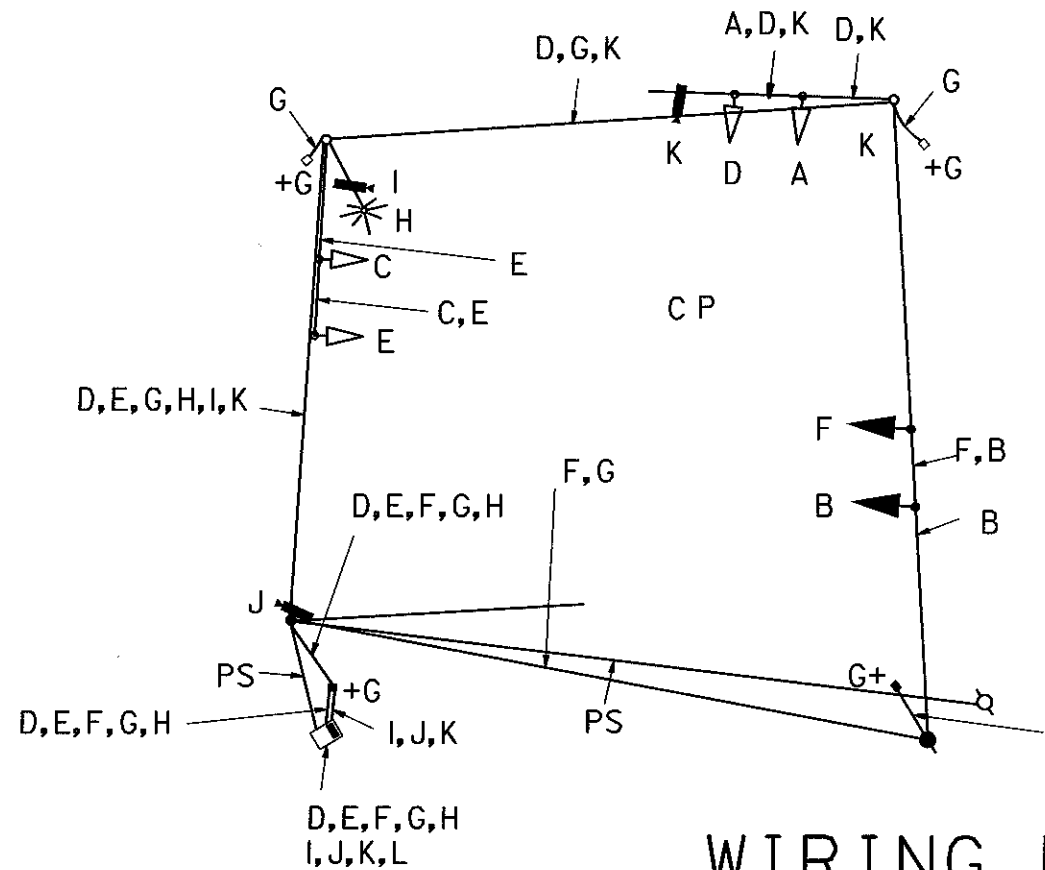
EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
2 EACH	STEEL POLE WITH 70' MAST ARM
1 EACH	CONTROLLER AND BASE MOUNTED CABINET

- NOTE: 1. THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.
2. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



WIRING KEY

A.B.C	} - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	H	- 2-CONDUCTOR ELECTRICAL CABLE TYPE T/C (NO 12 A.W.G.)
D.E.F	} - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	PS	- PROPOSED OVERHEAD ELECTRICAL SERVICE
G	} - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)	+	- EXISTING 3/4 IN. x 10 FT. GROUND ROD
L	} - 3-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)		
I,J	} - 250' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET		
K	} - 500' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET		

PHASE I

TEMPORARY TRAFFIC SIGNAL SS-8



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

MD 7 (Philadelphia Road) at
Industrial Park Road



HURST-ROSCH ENGINEERS, INC.
50 Scott Adam Road
Suite 100
Cockeysville, MD 21030
410-883-1888

GEOMETRIC LEGEND
--- EXISTING GEOMETRICS
--- PROPOSED GEOMETRICS
UTILITY LEGEND
--- GAS MAIN
--- WATER MAIN
--- SEWER MAIN
--- ELECTRIC CABLES
--- STORM DRAIN
--- AERIAL CABLES
--- TELEPHONE CABLES

REVISIONS
[E] RED LINE REVISION 6 MARCH 2002 REPLACES SHEET 204 S.J.A. No. 84235976
[A] MODIFY SIGNAL FOR NEW GEOMETRICS S.J.A. No. 84235976
DLA

DRAWN BY: A.A.
CHECKED BY: J.A.B.
SCALE: 1" = 20'
DATE: 9-26-95

F.A.P. NO. N/A
S.H.A. NO. BW813-802-412
COUNTY: BALTIMORE
LOG MILE: 03000706.62

TS NO. 3561A-X1A-G11
T.I.M.S. NO. D770

SHEET NO. 204A OF 237